



## Technical Data Sheet

### Description

Sasol North America Inc.'s NOVEL® TDA-9 Ethoxylate is a biodegradable nonionic derived from a 100% branched C13 alcohol and ethoxylated to an average of 9 moles of ethylene oxide. This ethoxylate is made using Sasol North America Inc.'s patented NOVEL® catalyst technology, which yields products with lower free alcohol, PEG levels, and melting ranges when compared to the traditional base-catalyzed methods. It is essentially 100% active unless diluted with water.

### Applications

NOVEL® TDA-9 Ethoxylate can be used in a wide variety of applications. It can be used as a high quality, biodegradable emulsifier, foaming agent, and/or cleaner in a wide variety of household, as well as, industrial cleaning products. It can also be used in such industrial applications as textile and leather processing, plastics additives, paints and coatings, pulp and paper processing, metal cleaners, and agricultural adjuvants.

### Properties

Typical physical properties are listed in the table to the right. Actual properties may vary from lot to lot.

### Contact Information

For technical information or samples:

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Typical Properties	NOVEL® TDA-9
Average Molecular Weight	578 - 623
Color, APHA	< 50
Hydroxyl Number	90 – 97
Water, Wt %	< 0.1
Glycol, Wt %	< 2
Free Alcohol, Wt %	< 2
Density, g/mL @ 20°C	1
Flash Point (PM), °C (°F)	196 (385)
Cloud Point, (1% in H2O) °C (°F)	60(140)
1% in 10% NaCl solution °C (°F)	35(95)
Melting Point, °C (°F)	2.8 (37)
Viscosity, cSt @ 40°C	41
pH, 1% in IPA / Water	6 – 8
Vapor Density	20.7
Avg. EO Content, moles	9
Avg. EO Content, Wt %	66.1
Free EO, PPM	< 1
HLB, calculated	13.2

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For detailed safety and handling information regarding these products, please refer to the respective Sasol North America Material Safety Data Sheet.

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